

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-115017 - Splitter Box

Sample No: LH0267174

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



Sample Information

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0267174 | LH0263950 | LHMC160760 | LH0153418 |
| Sample Date | 01 May 2024 | 30 Jan 2024 | 13 Dec 2022 | 21 Sep 2022 |
| Machine Hours | 9474 | 8879 | 6515 | 6081 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

ALTER RECYCLING

2175 BADGERLAND DR

GREEN BAY, WI

US 54303

Contact: LORI GRAVES

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Oil Condition

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 109 | 113 | 130 | 135 |
|-------------|-----|-----|-----|-----|-----|



Contamination

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 2 | 1 | <1 | 1 |
| Sodium | ppm | 0 | 1 | 1 | 0 |
| Potassium | ppm | 2 | 0 | 2 | 3 |



Wear Metals

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 7 | 9 | 11 | 15 |
| Copper | ppm | 1 | 3 | <1 | <1 |
| Lead | ppm | 1 | 0 | <1 | <1 |
| Tin | ppm | <1 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | 0 | <1 | 0 |
| Chromium | ppm | <1 | 0 | 0 | 0 |
| Molybdenum | ppm | 1 | 0 | <1 | <1 |
| Nickel | ppm | <1 | 0 | 0 | 0 |
| Titanium | ppm | <1 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | 1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



Additives

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 44 | 45 | 58 | 73 |
| Magnesium | ppm | 7 | 5 | 11 | 23 |
| Zinc | ppm | 48 | 48 | 44 | 44 |
| Phosphorus | ppm | 812 | 825 | 834 | 810 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 1 | 4 | 11 | 16 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTGRE

Unique No: 11019232

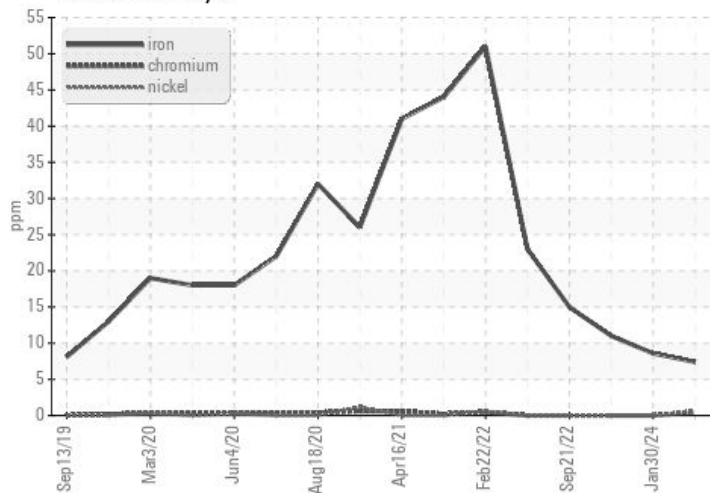
Signed: Sean Felton

Report Date: 10 May 2024

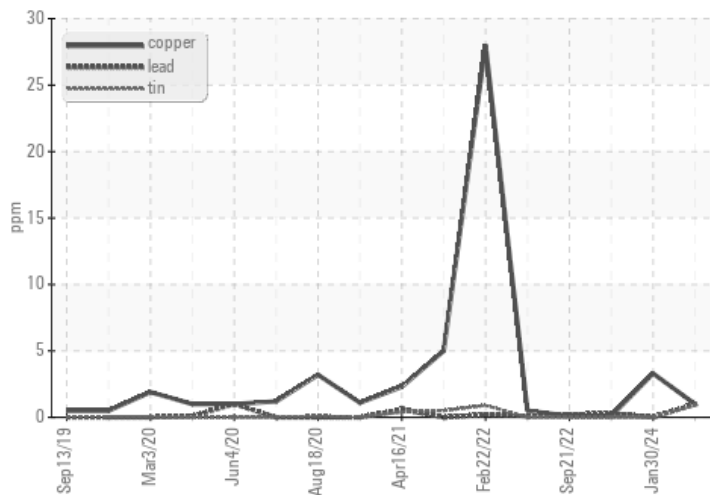


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

